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PROJECT CONSULTANT

TEST REPORT

Tests on Cement
[IS:4031 – Part 1 to 5]

Project Name:	Improvements, Restoration to roads and drains at Dasarahalli, Saraipalya and Rachenahalli Surrounding Areas in ward no. 06	**Sl. No.: 01**	
Client:	Executive Engineer, project division, yelahanka zone.		
Contractor:	SRI.PUTTA SWAMY GOWDA	**Date:**	16/07/2021
Sample Supplied by:	Agency / Contractor		

The test results conducted on the cement sample are as follows:

Sl No	Description	Test Method as per IS Standards	Test Result	Standard Requirements	Remarks
1	Fineness of Cement	IS 4031 (Part-1)	3.1%	Obtained Test Results Should Be Less Than 10%	OPC
2	Initial Setting Time	IS 4031 (Part-5)	126Minutes	Obtained Test Results Should not be less than 30 minutes	
3	Final Setting Time	IS 4031 (Part-5)	343Minutes	Obtained Test Results Should not be more than 600 minutes	
4	Soundness	IS 4031 (Part-3) by Le-Chatelier method	3.3 mm	Not more than 10mm	
5	Standard Consistency	IS-4031 (Part-4)	28%	Obtained Test results Should be 20% to 30%	

Remarks: Information / Sample furnished by the Agency / Contractor to the testing laboratory.

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PROJECT CONSULTANT

Ref.No:MC

TEST REPORT

Gradation Test on Fine Aggregate

[IS:383-2016]

Project Name:	Improvements, Restoration to roads and drains at Dasarahalli, Saraipalya and Rachenahalli Surrounding Areas in ward no. 06	**Sl. No.: 02**	
Client:	Executive Engineer, project division, yelahanka zone.		
Contractor:	PUTTA SWAMY GOWDA	**Date**	16/07/2021
Sample Supplied by:	Agency / Contractor		
Material Tested:	Fine Aggregate	**Total weight taken:**	1500 gms

The test results conducted on the fine aggregate sample are as follows:

IS. Sieve size (mm)	Wt. retained (g)	Cumulative wt. retained (g)	% Cumulative wt. retained	% Cumulative wt. passing	Specification as IS 383-2016
10	0	0	0	100	100
4.75	75	75	5.00	95.00	90 to 100
2.36	134	209	13.93	86.07	75 to 100
1.18	324	533	35.53	64.47	55 to 90
600 Micron	350	883	58.87	41.13	35 to 59
300 Micron	329	1212	80.80	19.20	8 to 30
150 Micron	267	1479	98.60	1.40	0 to 10
Pan	21	1500	100	0.00	0

Remarks: Information / Sample furnished by the Agency / Contractor to the testing laboratory.

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PROJECT CONSULTANT

Ref.No:MC

TEST REPORT

Specific Gravity of Fine Aggregates

IS:2386(PART3):1963(RA 2016)

Project Name:	Improvements, Restoration to roads and drains at Dasarahalli, Saraipalya and Rachenahalli Surrounding Areas in ward no. 06	Sl. No.: 03	
Client:	Executive Engineer, project division, yelahanka zone.		
Contractor:	PUTTA SWAMY GOWDA	Date:	18/07/2021
Sample Supplied by:	Agency / Contractor		
Material Tested:	Fine Aggregate		

The test results conducted on the fine aggregate sample are as follows:

Sl no	Description	Sample weight	Test Method As Per IS 2386(Part 3):1963(RA 2016)
1	Weight of Saturated dry sample (C),gm	500	Standard Requirements (2 to 4)
2	Weight of Pycnometer +Saturated dry sample + Water (A),gm	1853	
3	Weight of Pycnometer +Water (B),gm	1526	
4	Weight of Oven Dry Sample (D), gm	486	
I	**Specific Gravity ,G**	**2.81**	
II	**Apparent Specific Gravity**	**3.06**	
III	**Water Absorption**	**2.88%**	**Standard Requirements (0.1% to 5%)**

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PROJECT CONSULTANT

Ref. No.:WC

TEST REPORT

Gradation Test on Coarse Aggregate

[IS:383-2016]

Project Name:	Improvements, Restoration to roads and drains at Dasarahalli, Sanaipalya and Pachenahalli Surrounding Areas in ward no. 06	Sl. No.: 04	
Client:	Executive Engineer, project division, yelahanka zone.		
Contractor:	PUTTA SWAMY GOWDA	Date:	20/07/2021
Sample Supplied by:	Agency / Contractor		
Material Tested:	40mm Coarse Aggregate	Total weight taken:	15000 gms

The test results conducted on the coarse aggregate sample are as follows:

IS. Sieve size (mm)	Wt. retained (g)	Cumulative wt. retained (g)	% Cumulative wt. retained	% Cumulative wt. passing	Specification as IS 383-2016
80	0	0	0	100	100
40	339	339	2.26	97.74	95 to 100
20	8560	8899	59.33	40.67	30 to 70
10mm	3422	12321	82.14	17.86	10 to 35
4.75	2158	14479	96.53	3.47	0 to 5
Pan	521	15000	100.00	0.00	-
Total	15000				-

Remarks: Information / Sample furnished by the Agency / Contractor to the testing laboratory.

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TEST REPORT

Tests on Aggregate [IS:2386:1963(RA 2016)]

Project Name:	Improvements, Restoration to roads and drains at Dasarahalli, Saraipalya and Rachenahalli Surrounding Areas in ward no. 06	**Sl. No.: 05**	
Client:	Executive Engineer, project division, yelahanka zone.		
Contractor:	PUTTA SWAMY GOWDA	**Date:**	20/07/2021
Sample Supplied by:	Agency / Contractor		

Thetestresults conducted on the aggregate sample are as follows:

No.	Description	Test Method as per IS Standards	Test Result	Standard Requirements	Remarks
1	Flakiness index	IS 2386 (Part-1):1963(RA 2016)	19.40	Obtained Test Results Should Be 1% to 30%	
2	Elongation index	IS 2386(Part 1) :1963 (RA 2016)	9.89	Obtained Test Results Should be 1% to 30 %	
3	Specific Gravity	IS 2386 (Part 3): 1963 (RA 2016)	2.45	Obtained Test Results Should be 2 to 4	
4	Water Absorption	IS 2386 (Part-3) :1963 (RA 2016)	2.9%	Obtained Test Results should be 1% to 5%	
5	Aggregates Impact Value	IS 2386 (Part -4) :1963 (RA 2016)	39%	Obtained Test Results should be 1% to 60%	
Remarks: Information / Sample furnished by the Agency / Contractor to the testing laboratory.					

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TEST REPORT

Tests onSoil Sample

Project Name:	Improvements, Restoration to roads and drains at Dasarahalli, Saraipalya and Rachenahalli Surrounding Areas in ward no. 06	**Sl. No.: 01**	
Client:	Executive Engineer, project division, yelahanka zone.		
Contractor:	Sri.PuttaSwamyGowda	**Date:**	25/07/2021
Sample Supplied by:	Agency / Contractor		
Sample identification :	Sub-Grade Soil.		

The test results conducted on the Soilsample are as follows:

No.	Seive Analysis (% Passing)			Compaction test (IS Heavy)		CBR (%) (4 Days Soaked)	Remarks
	Test method IS 2720 (Part4):1985 (RA 2015)			Test Method IS 2720-(part8):1988(RA 2016)		Test Method as per IS 2720-Part 16-1979	
	Gravel (%) > 4.75mm	Sand (%) 4.75 to 0.075mm	Silt and Clay(%)< 0.075	MDD (g/cc)	OMC(%)	56 blows	
1	11.4	62.6	26.6	1.88	8.3	9.5%	Satisfied Requirement

Remarks: Information / Sample furnished by the Agency / Contractor to the testing laboratory.

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Field Density test for Soilsample are as follows:

TEST REPORT ON FIELD DENSITY OF EMBACKMENT

Tests on Sub Grade

Project Name:	Improvements, Restoration to roads and drains at Dasarahalli, Saraipalya and Rachenahalli Surrounding Areas in ward no. 06	**Sl. No.: 02**	
Client:	Executive Engineer, project division, yelahanka zone.	**Date:**	25/07/2021
Contractor:	Sri.PuttaSwamyGowda		
Sample :	At site		
Sample identification :	Sub-Grade Soil.		

Lab OMC(%): 8.3 LabMDD(gm/cc): 1.88

Mean weight of sand in cone(w2)	396
Volume of calibrating cylinder(V)	1176
Weight of Sand+cylinder (before pouring into the calibrating container)(W1)	6522
Mean Weight of sand+cylinder(after Pouring into the calibrating container)(w3)	4458
Weight of sand to fill calibrating container(wa=w1-w2-w3)	1668
Bulk density of sand(Ys=Wa/V)	1.42

Sl.no	Description	1	2	3
1	Chainage (m)	60 lhs	80rhs	70C
2	Weight of wet soil/GSB/WMM from hole w gm	2486	2311	2291
3	Weight of cylinder+sand before pouring(w1)	6510	6284	6394
4	Weight of cylinder+sand after pouring(w2)	4354	4268	4390
5	Weight of sand in conical portion(wc)	395	395	395

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6	Weight of sand /gsb/wmm in hole(Wh=W1-W2-Wc)	1761	1621	1609
7	volume of pit (V=Wh/Density of sand)	1246.52	1147.42	1138.93
8	Bulk density=(W/V)	1.99	2.01	2.01
9	Rapid moisture meter reading= M	9	8	8.4
10	Field moisture content MFC(%) by RMM reading	0.09	0.08	0.084
11	Field dry density FDD(g/cc)	1.83	1.86	1.86
12	Degree of compaction (%)	97.32	99.20	98.18

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PROJECT CONSULTANT

Ref. No.: MC

TEST REPORT

Gradation of Wet Mix Macadam

[MORT&H V Revision]

Project Name:	Improvements, Restoration to roads and drains at Dasarahalli, Saraipalya and Rachenahalli Surrounding Areas in ward no. 06	**Sl. No.: 01**	
Client:	Executive Engineer, project division, yelahanka zone.		
Contractor:	Sri.PuttaSwamyGowda	**Date:**	07/08/2021
Sample Supplied by:	Agency / Contractor		
Material :	Wet Mix Macadam (WMM)	**Total weight taken:**	10 kg

Gradation Test for WMM Sample:

Sl no	Sieve Size (mm)	Wt retained (gm)	Cummulativewt retained (gm)	% Cummulativewt retained	% Fines passing	Desired Gradation as per MoRTH Specification
1	53	0	0	0	100	100
2	45	25	25	0.25	99.75	95-100
3	22.4	3210	3235	32.35	67.65	60-80
4	11.2	2570	5805	58.05	41.95	40-60
5	4.75	1296	7101	71.01	28.99	25-40
6	2.36	1040	8141	81.41	18.59	15-30
7	0.6	496	8637	86.37	13.63	8-22.
8	0.075	918	9555	95.55	4.45	0-8

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PROJECT CONSULTANT

Ref. No.: MC

TEST REPORT

Gradation of Wet Mix Macadam
[MORT&H V Revision]

Project Name:	Improvements, Restoration to roads and drains at Dasarahalli, Saraipalya and Rachenahalli Surrounding Areas in ward no. 06	Sl. No.: 02	
Client:	Executive Engineer, project division, yelahanka zone.		
Contractor:	Sri.PuttaSwamyGowda	Date:	07/08/2021
Sample Supplied by:	Agency / Contractor		
Material :	Wet Mix Macadam (WMM)	Total weight taken:	10 kg

Gradation Test for WMM Sample:

Sl no	Sieve Size (mm)	Wt retained (gm)	Cummulativewt retained (gm)	% Cummulativewt retained	% Fines passing	Desired Gradation as per MoRTH Specification
1	53	0	0	0	100	100
2	45	52	52	0.52	99.48	95-100
3	22.4	3670	3722	37.22	62.78	60-80
4	11.2	2095	5817	58.17	41.83	40-60
5	4.75	668	6485	64.85	35.15	25-40
6	2.36	1665	8150	81.5	18.5	15-30
7	0.6	820	8970	89.7	10.3	8-22.
8	0.075	725	9695	96.95	3.05	0-8

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Ref. No.: MC

TEST REPORT

Gradation of Wet Mix Macadam
[MORT&H V Revision]

Project Name:	Improvements, Restoration to roads and drains at Dasarahalli, Saraipalya and Rachenahalli Surrounding Areas in ward no. 06	Sl. No.: 03	
Client:	Executive Engineer, project division, yelahanka zone.		
Contractor:	Sri.PuttaSwamyGowda	Date:	07/08/2021
Sample Supplied by:	Agency / Contractor		
Material :	Wet Mix Macadam (WMM)	Total weight taken:	10 kg

Gradation Test for WMM Sample:

Sl no	Sieve Size (mm)	Wt retained (gm)	Cummulativewt retained (gm)	% Cummulativewt retained	% Fines passing	Desired Gradation as per MoRTH Specification
1	53	0	0	0	100	100
2	45	97	97	0.97	99.03	95-100
3	22.4	3170	3267	32.67	67.33	60-80
4	11.2	1832	5099	50.99	49.01	40-60
5	4.75	1625	6724	67.24	32.76	25-40
6	2.36	1235	7959	79.59	20.41	15-30
7	0.6	720	8679	86.79	13.21	8-22.
8	0.075	685	9364	93.64	6.36	0-8

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Ref. No.: MC

TEST REPORT

Tests on Aggregate

[IS:2386:1963(RA 2016)]

Project Name:	Improvements, Restoration to roads and drains at Dasarahalli, Saraipalya and Rachenahalli Surrounding Areas in ward no. 06	**Sl. No.: 04**	
Client:	Executive Engineer, project division, yelahanka zone.		
Contractor:	Sri.PuttaSwamyGowda	**Date:**	**07/08/2021**
Sample Supplied by:	Agency / Contractor		
Material:	Wet Mix Macadam (WMM)		

Thetestresults conducted on the aggregate sample for WMM are as follows:

No.	Description	Test Result	Standard Requirements as per Morth V Revision For WMM
1	Flakiness index	20.65	Max Value for WMM for Combined Index Is 30%
2	Elongation index	8.24	

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Ref. No.:MC

TEST REPORT

Aggregates Impact Value
[IS:2386:1963(RA 2016)]

Project Name:	Improvements, Restoration to roads and drains at Dasarahalli, Saraipalya and Rachenahalli Surrounding Areas in ward no. 06	Sl. No.: 05	
Client:	Executive Engineer, project division, yelahanka zone.		
Contractor:	Sri.PuttaSwamyGowda	Date:	07/08/2021
Sample Supplied by:	Agency/Contractor		
Material:	Wet Mix Macadam (WMM)		

Thetestresults conducted on the aggregate sample of WMM are as follows:

sl no	Details	Trail No		Average	Standard Requirements as per Morth V Revision For WMM
		1	2		
1	Total weight of aggregate sample filling the cylindrical measure=W1 g	390	388	21.34	Max Value for WMM for Combined Index Is 30%
2	Weight of aggregate passing 2.36 mm sieve after the test = W2 g	82	84		
3	Weight of aggregate retained 2.36 mm sieve after the test = W3 g	308	304		
4	Aggregate Impact Value= percent fines 100*(W2/W1) %	21.03	21.65		

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TEST REPORT

COMPRESSIVE STRENGTH TEST ON CONCRETE CUBES

ame & Address f the Client	Executive Engineer, Project division Yelahanka zone, BBMP
ame of Work	Improvements, Restoration to roads and drains at Dasarahalli, Sarajpalya and Rachenahalli Surrounding Areas in ward no. 06
ame of Agency	Sri.Putta Swamy Gowda
rade of Concrete	M-30
o. of cubes tested	3
ocation	CC Road
echnical Reference	IS: 516-1959 (Reaffirmed 2013)

Sl. No.	ID	Dimension of specimen (mm)	Cross sectional area (mm^2)	Date of Casting	Date of Testing	Age at test (Days)	Weight (Kg)	Failure Load (KN)	Compressive Strength (N/mm^2)	Avg Compressive Strength (N/mm^2)
1	Sample-1	150.07 X 150.06 X 150.0	22520	08/09/2021	15/09/2021	7	8.39	618.4	27.46	27.44
2		150.06 X 150.04 X 150.0	22515				8.40	621.5	27.60	
3		150.08 X 150.06 X 150.0	22521				8.38	613.6	27.25	

Note:

1. The results relate only to the items tested.
2. Report shall not be reproduced except in full, without the written approval of the lab.
3. Any correction invalidates this report.
4. The results are based on the test conducted on samples supplied by the customer.

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TEST REPORT

COMPRESSIVE STRENGTH TEST ON CONCRETE CUBES

& Address e Client	Executive Engineer, Project division Yelahanka zone, BBMP
e of Work	Improvements, Restoration to roads and drains at Dasarahalli, Saraipalya and Rachenahalli Surrounding Areas in ward no. 06
e of Agency	Sri.Putta Swamy Gowda
e of Concrete	M-30
of cubes tested	3
ition	CC Road
nical Reference	IS: 516-1959 (Reaffirmed 2013)

ID	Dimension of specimen (mm)	Cross sectional area (mm^2)	Date of Casting	Date of Testing	Age at test (Days)	Weight (Kg)	Failure Load (KN)	Compressive Strength (N/mm^2)	Avg Compressive Strength (N/mm^2)
Sample 2	150.14 X 150.11 X 150.0	22538	28/08/2021	25/09/2021	28	8.31	860	38.16	38.70
	150.12 X 150.13 X 150.0	22538				8.40	885	39.27	
	150.14 X 150.16 X 150.0	22545				8.33	871.6	38.66	

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port shall not be reproduced except in full, without the written approval of the lab.
y correction invalidates this report.
e results are based on the test conducted on samples supplied by the customer.

48/43, 6th Main Road, JnanajyothiNagara, Jnana Bharathi, Bangalore – 560 056. Tel: 080-23240109,
Fax : 080 - 23340685, Cell : 98442 66050 E-mail : preethicad99@gmail.com

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore

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Samples	150.07 X 150.06 X 150.0	22520	17/09/2021	24/09/2021	7	8.39	613.6	27.25	27.42
	150.06 X 150.04 X 150.0	22515				8.40	620.3	27.55	
	150.08 X 150.06 X 150.0	22521				8.38	618.4	27.46	

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Sample 1	150.07 X 150.06 X 150.0	22520	31/08/2021	28/09/2021	28	8.29	884.6	**39.28**	**39.24**
	150.06 X 150.04 X 150.0	22515				8.34	890	**39.53**	
	150.08 X 150.06 X 150.0	22521				8.39	876	**38.90**	

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Name of Agency	Sri.Putta Swamy Gowda
Grade of Concrete	M-30
No. of cubes tested	3
Location	CC Road
Material Reference	IS: 516-1959 (Reaffirmed 2013)

SL ID	Dimension of specimen (mm)	Cross sectional area (mm^2)	Date of Casting	Date of Testing	Age at test (Days)	Weight (Kg)	Failure Load (KN)	Compressive Strength (N/mm^2)	Avg Compressive Strength (N/mm^2)
	150.07 X 150.06 X 150.0	22520	08/09/2021	06/10/2021	28	8.39	885.3	**39.31**	39.12
	150.06 X 150.04 X 150.0	22515				8.41	880.1	**39.09**	
	150.08 X 150.06 X 150.0	22521				8.40	877.4	**38.96**	

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